

San Diego DX Club Bulletin

April 2017



K6JHD



CALIFORNIA, USA, San Diego County

APRIL PROGRAM

SDR RADIO TECHNOLOGY UPDATE BY

DR. HOWARD WHITE, KY6LA

MEETING NOTICE:

WEDNESDAY, APRIL 26, 2017

JOIN US AT THE SIZZLER, 3755 Murphy Canyon Road,

San Diego, CA 92123 (858) 278-6988

SOCIAL HOUR, 5:00 P.M. DINNER, 5:30 P.M.

MEETING, 6:30 P.M.

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From the Prez . . .

Howard, W6HDG

Club Log Revisited

I'm writing this column just before Visalia and am especially looking forward to an April 22nd presentation on Club Log. The presenter will be Michael Wells, G7VJR, the visionary who created Club Log who is also a CQ DX Hall of Fame Member.

Club Log, along with LoTW, DX Clusters and Reverse Beacon Networks are arguably the biggest cyber advances in DX in the last decade. Club Log has so many useful features and tools that I couldn't start to scratch the surface in this article. In fact, the more I use it, the more amazed I am at all of its features and tools.

I find it rather surprising that less than a third of our members are registered on Club Log. This might therefore be a good time to review its virtues again. Club Log is an online database of uploaded logs from all of its users. There are 423 million log entries at this time uploaded by 61,500 distinct worldwide call-signs! Average log size is nearly 7000 QSO's, so you can imagine how many heavy hitters are subscribed. That results in a massive amount of DX data which can be analyzed for all kinds of trends and reports, not the least of which are:

- Highly Accurate Most-Wanted Entity Reports
- Propagation and Activity Predictions
- DXpedition Planning
- Assessment of how you are doing compared to your peers

Are you competitive? How many entities has your friend worked and who have they talked to lately? Try this link and substitute their callsign for mine:

https://secure.clublog.org/last10_iframe.php?call=W6HDG

Fun, isn't it? We can also see how our SDDXC as a whole is doing. Our Club currently is ranked number 56 of 188 clubs internationally which is quite respectable. We weren't even on the list just 4 years ago and we would likely be ranked higher if some of our legendary DX'ers dropped the paper and pencil and went electronic. Here is a table for our club when I select "confirmed", "no date or mode filters" and "current entities":





Your Log

DXCC Charts

Timelines

QSL Charts

Zone Charts

Log Inspector

Log Matching

League Tables

DXCC Leagues

Zone Leagues

Club Leagues

CDXC Challenges

Super League

Uniques League

Club Log tools

DX Cluster

Log Search

Call Tester

Most Wanted

DXCC Analysis

Propagation

Great Circle Maps

DXCC Leagues

The leagues are rebuilt once per day. Only callsigns active in the last 12 months are included in the league tables. The maximum size of a league is 2500 participants.

<input checked="" type="radio"/> No Mode Filter	<input type="radio"/> CW	<input type="radio"/> Phone	<input type="radio"/> Data
<input checked="" type="radio"/> Rank by DXCCs	<input type="radio"/> Rank by slots	Rank by band: Totals ▾	
<input checked="" type="checkbox"/> 160M <input checked="" type="checkbox"/> 80M <input checked="" type="checkbox"/> 60M <input checked="" type="checkbox"/> 40M <input checked="" type="checkbox"/> 30M <input checked="" type="checkbox"/> 20M <input checked="" type="checkbox"/> 17M <input checked="" type="checkbox"/> 15M <input checked="" type="checkbox"/> 12M <input checked="" type="checkbox"/> 10M <input checked="" type="checkbox"/> 6M			
<input checked="" type="radio"/> Current entities	<input type="radio"/> Current and deleted	<input type="radio"/> Worked	<input checked="" type="radio"/> Confirmed
<input checked="" type="radio"/> No Date Filter	<input type="radio"/> 2017	<input type="radio"/> 2016	<input type="radio"/> Last 12 months
Filter by club/continent:		SDDXC - San Diego DX Club ▾	

Generate DXCC League

League for SDDXC - San Diego DX Club

Rank	Callsign	160	80	60	40	30	20	17	15	12	10	6	DXCC ▾	Slots	Range
1	W6YI	200	278	0	327	276	336	295	329	269	305	10	339	2625	53 yrs
2	NN6R	0	0	0	104	43	238	216	205	160	185	0	339	1151	60 yrs
3	N7CW	165	250	1	328	315	331	328	329	290	285	77	338	2699	30 yrs
4	WN6K	25	110	0	239	213	326	240	287	221	258	7	338	1926	42 yrs
5	K6XT	189	282	0	316	239	317	247	296	190	245	0	337	2321	51 yrs
6	K0XB+4 *	84	167	0	229	239	333	307	319	271	270	5	337	2224	56 yrs
7	K5OA *	100	128	0	169	124	327	140	229	117	181	0	333	1515	55 yrs
8	WB1EAZ	8	111	0	134	49	285	164	242	123	217	3	331	1336	42 yrs
9	N6XT	21	115	0	177	25	296	174	232	132	201	3	330	1376	39 yrs
10	WB6FWS	26	36	1	50	6	261	118	197	133	165	2	326	995	52 yrs
		160	80	60	40	30	20	17	15	12	10	6			
11	NA6L+1	43	144	20	218	182	300	265	297	250	268	38	321	2025	9 yrs
12	WB6BFG	21	92	0	161	205	301	273	282	238	222	15	316	1810	9 yrs
13	N6JOJ	0	11	0	48	0	231	188	187	147	221	1	304	1034	30 yrs
14	W6HDG	1	98	0	148	116	213	177	213	125	148	2	264	1241	5 yrs
15	K1ROA	0	21	0	46	30	145	181	194	138	110	0	235	865	3 yrs
16	KJ6YXI	0	6	0	31	0	148	64	151	45	130	0	224	575	5 yrs
17	NC6K+1	16	69	0	110	80	161	119	145	60	101	5	217	866	39 yrs
18	K0XB/6	1	15	0	56	57	143	110	160	107	108	0	211	757	13 yrs
19	NA6MB	2	9	0	48	7	117	22	82	14	78	1	162	380	4 yrs
20	KY6LA	1	13	0	71	1	122	13	99	5	50	1	155	376	16 yrs
		160	80	60	40	30	20	17	15	12	10	6			
21	W6JBR+1	6	23	0	56	5	100	25	85	29	95	2	149	426	21 yrs
22	AE6BH	1	13	1	54	3	92	15	82	9	66	2	147	338	5 yrs
23	W6RGS+2	1	2	0	32	0	78	1	51	0	79	0	141	244	52 yrs
24	KK6NON	1	6	0	19	10	91	17	101	13	91	2	139	351	3 yrs
25	W6ZM	0	3	0	20	9	101	25	58	3	23	1	136	243	39 yrs
26	DU3/W6QT	0	2	0	15	7	53	25	68	18	20	0	90	208	5 yrs
27	KA7IGN	0	2	0	13	2	64	13	17	2	3	0	88	116	1 yrs
28	N6ADO	1	11	0	20	0	47	11	30	0	19	0	69	139	4 yrs
29	KK6ABZ	0	2	0	3	0	10	2	0	0	6	0	13	23	3 yrs
30	WD6EJT	0	0	0	0	0	2	0	0	0	0	0	2	2	15 yrs
		160	80	60	40	30	20	17	15	12	10	6			

You can link to your club here: <https://secure.clublog.org/league.php?club=79>

Note: If you have uploaded to Club Log and do not appear on the above list go to Club Log settings and be sure you have enabled the “Last 10” QSO tool and have also clicked on Clubs and joined the “SDDXC – San Diego DX Club”.

Club Log is also highly accurate and will only map QSOs to rare entities for known callsigns over specific dates and down to the hours of operation. Alan, [5B4AHJ](#) maintains very high quality lists of exceptions and callsign information in Club Log. This is a huge job that requires a great deal of careful research by his team. Currently, the list comprises 3,929 prefixes and 20,513 exceptions. These lists dramatically improve the quality and usefulness of the database. If you do a “Call Tester” lookup on K1N today, it will map to USA. If you change the lookup date to Feb 2, 2015, well try it and find out....

As a case in point, last week a few of us had a friendly disagreement on the correct entity for RI1ANO who we were working on 80m JT65. I quipped that I had recently worked RI1AND so I was confident that RI1ANO was also Antarctica. Club Log proved me very wrong.

Call Tester

Callsign:	RI1ANO	Test Now
Date:	Y 2017 ▼ M 4 ▼ D 17 ▼ H 00 ▼ m 53 ▼ :00	Today

For QSOs on 2017-04-17 00:53...

RI1ANO maps by exception to **SOUTH SHETLAND ISLANDS**
ADIF 241 [VP8H]
CQ Zone: 13 — Continent: SA
Location: -62.00°N -58.00°E
Beam heading: 155°
SR 11:05 / SS 20:36

QSOs with SOUTH SHETLAND ISLANDS:

	CW	Phone	Data
160	○	○	○
80	○	○	V
60	○	○	○
40	W	W	○
30	W	-	○
20	W	○	○
17	○	○	○
15	W	○	○

RI1AND maps to Antarctica but RI1ANO maps by exception to South Shetland Islands. Where else can you get this kind of info without hours of Googling and reading DX Newsletters? I got verified on the JT65 contact the next day and the above print out shows just how much I needed it to be confirmed.

From April 2017 onwards, Club Log can also send QSO's to LoTW directly, and receive QSL information back on behalf of the user. I don't use this feature but it might be perfect for some. Club Log also provides all kinds of personal reports such as the DXCC entities you need, when you might work them and which ones are most likely to confirm on LoTW and OQRS. Club Log also provides a personal DX Cluster which matches the overall Cluster to your personal logbook/ LoTW and creates a very useful listing. At the moment of this writing, here is what Club Log's DX Cluster is telling me:

DX Spots for Needed DXCCs

Using this tool, you can search the DX Cluster for spots related to DXCCs that you have not yet worked.

Choose your call:

Filter mode:

RA6LO	14002.2	OY1R	cq dx no eu	FAROE ISLANDS LoTW	2017-04-17 16:29
KA1VT	14001.7	OY1R	559 in vt lonely tu regin	FAROE ISLANDS LoTW	2017-04-17 16:28
K4DY	14002.0	OY1R	cq dx - no eu	FAROE ISLANDS LoTW	2017-04-17 16:07
RX4CD	14002.0	OY1R	only dx`s	FAROE ISLANDS LoTW	2017-04-17 15:56
W3LPL	14002.0	OY1R	heard in pa and nh	FAROE ISLANDS LoTW	2017-04-17 15:53
W3LPL	14004.3	OY1G	heard in nc	FAROE ISLANDS	2017-04-17 15:11

Faroe Islands is on right now but it has been my personal Moby Dick. Club Log also allows you to filter on needed band slots and get a real time listing of who is on the air at the moment who might fill in some of your blanks.

Why not go to www.Clublog.org and give it a try? Click on HELP and prepare to be awestruck.

Best 73 and Gud DX,

Howard, **W6HDG**



Secretary/Treasurer Reports

Randy, KQ6RS



Meeting Minutes, SDDXC Club, March 22, 2017

At 6:18 Howard called the meeting to order. 47 members and three guests were in attendance. The 1st guest was Jim Klassen, N6JMK. The 2nd guest was Bob Harrington, AA6PW. The 3rd guest was Arnie Shatz, N6HC, who as you may recall, gave us a presentation last November on Medical Considerations for DXpeditions.

Old business – the February meeting minutes and Treasurer's report were approved.

New business – Howard discussed ways we can introduce some of the new hams to HF. He noted that most new hams tend to be interested in VHF/UHF.

Eric Gruff, NC6K, talked about holding a "CW Academy" for those interested in getting back into, or improving their CW skills.

After a break, at 6:42 Ralph Fedor, M.D., KØIR gave a presentation on his many DXpedition and his upcoming trip to Bouvet Island, planned for early 2018. More information on this DXpedition is available at <http://www.bouvetdx.org/>.

A video Ralph made on DX and DXpeditions is available at <https://www.youtube.com/watch?v=k4dJcK-WVRw>.

At 7:54 we started our roundtable discussions.

At 8:17 the meeting was adjourned.

Treasurer's Report

Income for March \$80 for membership renewals.

Expenses for March – \$13.00 for the speaker's dinner.

Statement Balance on 3/28/2017 \$9,048.98

Randy, KQ6RS

2017 Summer Bash Notice

The 2017 Summer Bash will be held on August 6th at the QTH of Glenn Rattmann, K6NA
14250 Calle De Vista
Valley Center, CA 92082
Details to follow



VP Report

Mike, NA6MB



Ah, back to paradise in San Diego from paradise in Cabo San Lucas, BCS. Too rough to take!

There are important comments from Dr. Ralph Fedor, KØIR, and myself at the end of the March recap. Please don't skip over it.

Recap of March Program

INDEXA Chairman of the Board

by Ralph Fedor, M.D. KØIR

Ralph KØIR gave a great presentation!

His many DXpeditions have taken him to some of the most remote places on earth. Ralph gave us insight into what he has gleaned from his DXpeditions and shared some images and experiences from around the world.

His main discussion was on "Lessons Learned". How to adapt, improve equipment, organization, and support.

Ralph told us a bit about the plans for a DXpedition to Bouvet in early 2018.

Also, he spoke about the huge cost of DXpeditions and how the costs are covered.

After the meeting, I wrote my customary thank to Ralph and he and I began an exchange about costs, organizations and DXpedition funding. He asked if the SDDXC could someday partially fund one of his DXpeditions. I told him that the policy of SDDXC is to donate through NCDXF for support of the DXpeditions they select. His comment was that he hoped that our members don't have an attitude of "My club contributes for me, so I don't have to send anything". I agree with him. We all need to financially support, individually as well as via the club contribution, DXpeditions. These trips can cost over \$500,000 for the rare ones with difficult access! Braveheart and helicopters are very expensive! Our donation to NCDXF becomes very diluted (possibly down to \$3 or less per SDDXC member) by the time it gets to an individual DXpedition. Please donate individually to the DXpeditions! The DX operators cannot fund the trips themselves. I still have a lot of DXCC entities to work, so I need them to keep going out there!



April Program SDR Radio Technology Update by Dr. Howard White, KY6LA

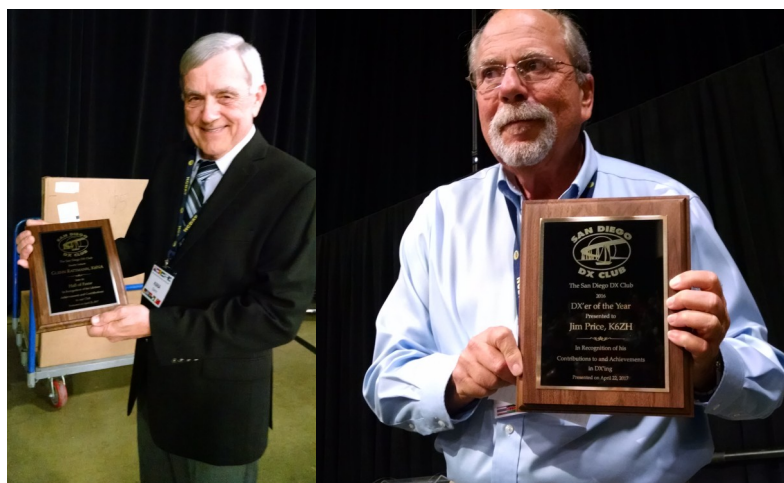
Dr. Howard White, KY6LA, was first licensed in 1958 whereupon he connected a 4 bit tube computer to a radio to send and receive digital computer counts. Dr. White has been CEO and Chief Technologist at more than a dozen companies in the fields of traffic control computers, transportation monitoring systems, vehicle tracking systems and digital communications. Since retiring in 2012, he has worked on remoting SDR radios and has SDR remoted from 28 different countries. At Dayton 2015, Flex Radio named him "2014 Elmer of the Year" and is part of their Alpha and Beta testing teams. Dr. White has been a Guest Speaker at the SDR Academy in Freidrichshafen and on speaking tours in Germany, France and Czech Republic.



Software Defined radios (SDR) have evolved significantly since they were first developed by the US military in the late 20th century. Today, just as semiconductors have replaced tubes, SDRs have replaced legacy analog radios in virtually all RF communications devices. This has happened because SDRs are not only much more flexible, capable and perform better but they are much less costly. Of course, with the aging of the ham population, hams been very slow to accept the new technology. In the interim, there have been significant improvements to SDRs which have now evolved through four generations of radio architecture. Some say that today SDRs outperform all legacy radios and now win or place at the top of many Ham Contests. This updated version of the Freidrichshafen SDR Academy Talk will be a quick run through of the latest advances in Ham Radio Technology. Please reread (or read if you skipped it) the last paragraph of the recap from March and donate to the DXpeditions. Especially if you worked them!

73 and good DX

Mike, NA6MB



SDDXC TOP 10

By John, K6AM

TOTAL COUNTRIES WORKED ON 30 METERS

4/17	4/16	CALL	ZNS	C-D	CFM	WKD	CHG
1.	1.	W6YA	40	?	?	337	-
2.	2.	K6AM	40	320	326	328	-
3.	4.	K6XT	40	297	305	325	+26
4.	5.	W6YI	39	281	283	312	+22
5.	3.	N7CW	40	289	289	311	-
6.	6.	K6ZH	39	260	265	282	+6
7.	7.	N6CW	37	?	215	275	-
8.	8.	K0XB	40	254	256	259	+1
9.	9.	WN6K	37	204	206	253	-
10.	10.	W6YOO	33	236	238	238	-

TOTAL COUNTRIES WORKED ON 15 METERS

4/17	4/16	CALL	ZNS	C-D	CFM	WKD	CHG
1.	1.	K6AM	40	335	344	346	+1
2.	2.	N6CW	40	?	331	342	-
3.	3.	W6YI	40	331	340	341	+2
4.	6.	K6XT	40	318	332	341	*16
5.	4.	K0XB	40	322	329	330	-
6.	5.	N7CW	40	319	319	327	-
7.	7.	K6ZH	40	309	315	323	+1
8.	8.	W6YOO	40	314	319	319	-
9.	9.	WN6K	40	285	293	315	-
10.	10.	NA6L	40	291	291	298	-

With about half the players submitting a report again this year, we again see some nice gains. I suspect some of K6XT's meteoric rise is due to a careful review of his previous submissions and uncovering some lost points. 30 meters continues to be productive with some good openings worldwide. We are also still seeing a few jumps among the more active players on 15. Both bands should have a bit more life in them as we slide down the back side of cycle 24.

Each month, we will publish top ten lists for one of the lesser recognized but hard won categories. Coming up next, the other WARC bands, 160 and RTTY. Please send me your totals for each band throughout the year and you will be listed in coming months. Use the convenient form at <http://www.sddxc.org> or bring 'em to the meeting.

John, K6AM

SDDXC RESULTS

2016 ARRL SWEEPSTAKES CW CONTEST

CLASS	CALL	SCORE	QSO'S	MLTS	
MS - HP	W6YI (+ K6AM N6MJ N6AN N5ZO N6KI, ops)	226,258	1,363	83	#1 SW DIV #2 US/VE
MS - LP	NX6T (N6KI K4RB KB7V N6CY WB6NBU, ops)	148,072	892	83	#1 SW DIV #4 US/VE
SO - LP	KI6RRN	138,580	845	82	#2 SW DIV
SO - LP	WN6K	117,288	724	81	#5 SW DIV
SO - LP	N7CW	107,092	653	82	#6 SW DIV
SO - HP	K6ZH	100,596	606	83	#6 SW DIV
SO - HP	N5ZO	11,808	123	48	

From the Editor

Bob, K9RHY



First, thanks to Gayle, K6GO and Mike, NA6MB for the Visalia photos.

Second, I'm always on the lookout for DX-related material that SDDXC members may enjoy. Right after I published the February, 2017 edition of the SDDXC Bulletin, I received a very interesting and welcome email:

Bob,

I am a member of the San Diego DX club and I just finished reading your article on your Russian visitors in the January club bulletin. I thought it was a great article. You don't look too different from the pictures of your younger self!

While I was deployed in the Mediterranean Sea with the US Coast Guard off the Greek Island of Rhodes for 18 months from 1962 to 1964 I got a Greek Ham license as SV0WG. I had a small CW station than ran 75 watts on 20 meters. I collected about 50 QSL cards during the four months I got to operate from Rhodes before my deployment was up and I got shipped back to the states. I received some interesting letters from Hams behind the Iron Curtain along with QSL cards they would mail to me. The Russians would ask me if I was in the military or just a visitor on the island. My address was:

SV0WG
US Coast Guard Cutter Courier
(WAGR-410)
Rhodes, Greece

I got cards from as far away as England and the US east coast with that address. My ship operated as a Voice of America relay station operating off the island of Rhodes. We penetrated the iron curtain and constant Russian Jamming stations to get our message of freedom out in nine languages, 10 hours a day, and seven days a week. Our AM broadcast transmitter at 1259 KHz ran 150 Kw of power, and our two Collins HF transmitters ran 35 Kw each. All three transmitters carried the same program at the same time. I was an electronic technician Petty Officer Second Class (ET-2).

I enjoy your writing Bob.

73, Dave Hendrick, K6JHD

So here is Dave's story:

In 1960 I had my "Call of Duty" and enlisted in the U.S. Coast Guard for four years active duty and two years inactive reserve. I was Honorably Discharged in 1966. After 12 weeks of basic training in Alameda, California I was sent to Electronic Technician (ET) School in Groton, CT. I graduated third in my class (0.5 Points out of second place) from the 30 week school as a Third Class Petty Officer (ET3) and received orders to my first duty station in San Pedro, California to the Coast Guard Base on Terminal Island. While I was stationed on the base I repaired everything from Radar Units to Radio Beacons. My favorite road trip was to Port Hueneme where I boarded a Float Plane and flew to Catalina Island. There my task was to repair and calibrate a radio beacon located in the Casino. The next morning I boarded the Float Plane for the 23 mile flight back to Port Hueneme and then drove back to the Coast Guard base at Terminal Island. After six months of duty there I received orders to the USCG Cutter Courier stationed near the Island of Rhodes, Greece for an 18 month deployment. This was a great duty station for a young guy of 25. The Cutter Courier was a floating transmitter ship owned by the USIA for the Voice of America and run by the Coast Guard. My first assignment as an ET3 was in the relay room on the upper deck of the ship. The technician on duty had to manage the program content sent to the transmitter room. The programming consisted of transmitting in eight languages, 10 hours a day, seven days a week. The technician on duty also had the responsibility of keeping the VHF link receiving antenna pointed to the receiving site on Rhodes. In the event that the VHF link should fail, the Collins HF receivers in the relay room had to be tuned to at least two other VOA relay stations that were relaying the same program. The duty ET also played the station ID tapes in the proper language such as "This Is The Voice of America, Rhodes." After my promotion to ET2 I started standing watch in the transmitter room. The station consisted of three transmitters, two 35 KW Collins shortwave transmitters, and one RCA 150 KW Medium Wave transmitter operating on 1259 KHz in the broadcast band. The ET on duty had the job of keeping the three transmitters on the air. I soon put in for a Greek Ham license, and after several months I received an operating license from the Greek government with the call sign of SVØWG. One of the VOA engineers was kind enough to lend me a Gonset mobile receiver that covered 20 meters, and an ARC-5 transmitter I converted to 20 meters for CW operation running 50 W. I got the VFO to cover the 20 meter band so I wouldn't be stuck on one frequency with a crystal. With the VFO I could cruise around the CW band and look for stations to call. I was the only Ham operating on Rhodes so I was "Rare DX."

The picture on the next page shows me sitting at the Audio Console in the Transmitter Room of the USCGC Courier. I am watching the VU meters, listening to the program quality, and the hum of the three transmitters. I could tell when something was wrong by the sound the transmitters made. The transmitter in front of me is the 150 KW RCA broadcast transmitter operating on 1259 KHz. ***(I wonder if there was ever a temptation to tune that beast to 160M?, ed)*** When a transmitter went off the air, it cost the VOA \$1,000 a minute. Needless to say I kept the outage as short as possible on my watch. Late one evening I was standing watch alone when I heard a loud "CLUNK" from one of the transmitters. I knew it was one of the Collins 35 KW transmitters by the noise it made, so I looked to see which one had shut down. It was the Starboard Collins that had tripped off line due to a failed driver tube. I punched off the power, opened the bay door, carefully removed the hot tube and installed a new driver tube. After applying power to the filament circuits for a few minutes, high power was applied and the transmitter was back on the air with a minimum of off air time. I made a log entry of the outage and resumed my watch.

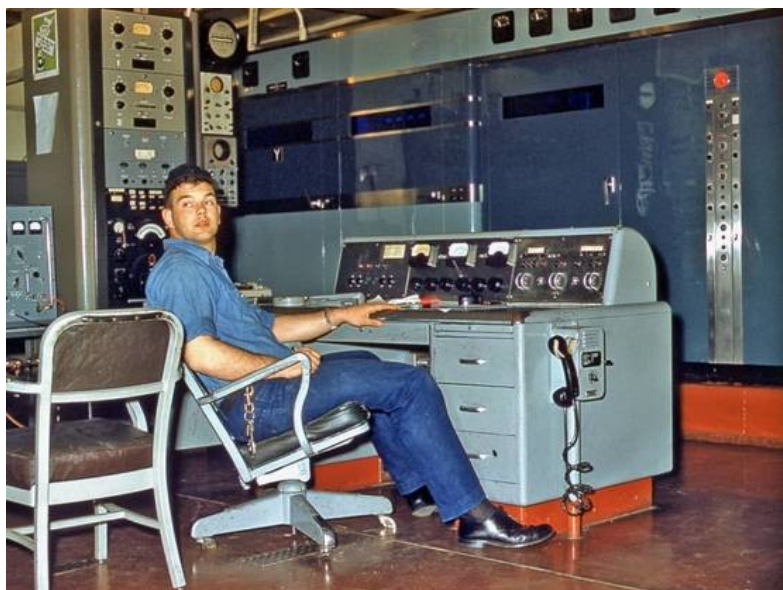


K6JHD at the Audio Console in the Transmitter Room of the USCGC Courier



USCGC Courier Transmitter Room

The pictures above show the port Collins 207B1 35 Kw HF Transmitter and the RCA BT-105 150 Kw water cooled Medium Wave Transmitter operating on 1259 KHz in the AM Broadcast Band. The Audio Patch Panel from the Relay Room and the Audio Console for the three Transmitters are also shown in the photograph. You could eat off the floor it was so clean!



Above is a view of the Transmitter Room showing the Audio Console for the three transmitters on the Cutter Courier. The telephone on the side of the desk was used to communicate with the AC Room when there was a change in power required. I do not know the name of the technician on duty at the desk.



The Cutter Courier's Call Sign was NFKW shown here painted in red on the Flight Deck. The two red structures on the foredeck of the Courier are the Port and Starboard Tylon Antennas used by the two Collins 207B1 35 Kw HF Transmitters. The wire leading to the forward mast and to the insulators shown in the bottom center of the photograph is part of the Inverted Delta Antenna for the 150 KW RCA BT-105 Transmitter.

The wire in the center of the square hole in the Flight Deck leads down to the Antenna Matching Network for the 150 KW RCA BT-105 Transmitter.



The Cutter Courier tied up at the dock on a calm day

The Cutter contained the most powerful communications radio transmitter ever installed on board a ship (150 KW). She holds the record for the longest deployment overseas - from 17 July 1952 to 13 August 1964. Our liberty boat was a LCVP, (Higgins Boat) that can be seen in the water along side the Courier and the Captain's Gig is being hoisted on board by a crane. Below are some sights in Rhodes.



Bob, K9RHY